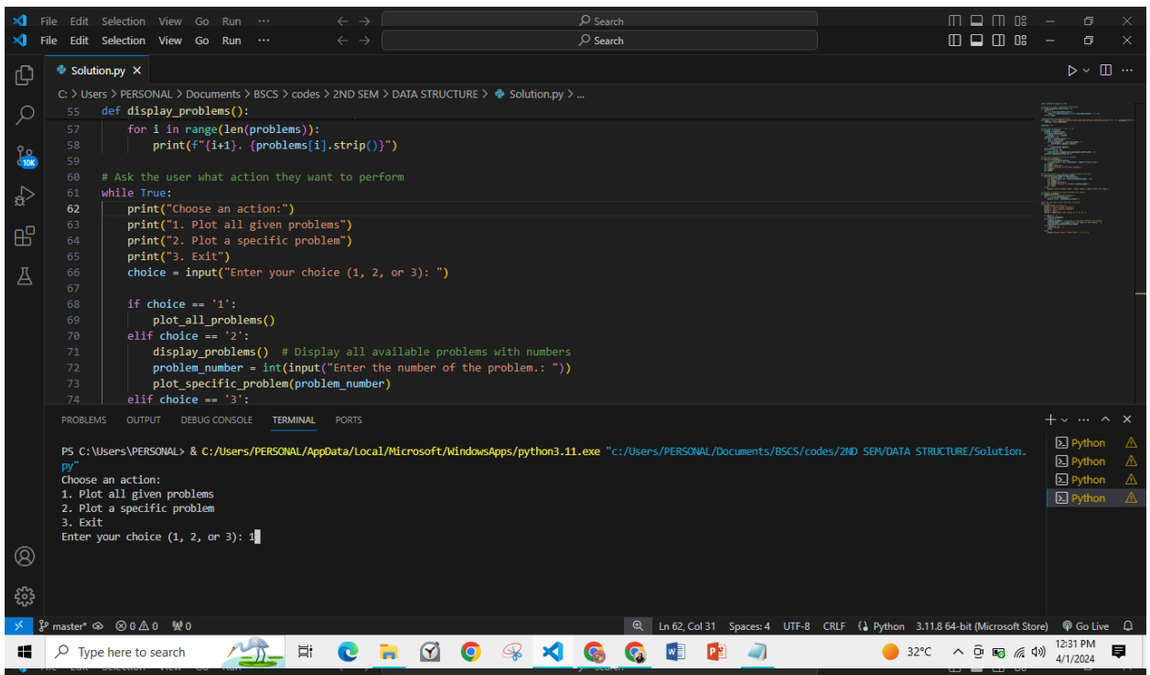
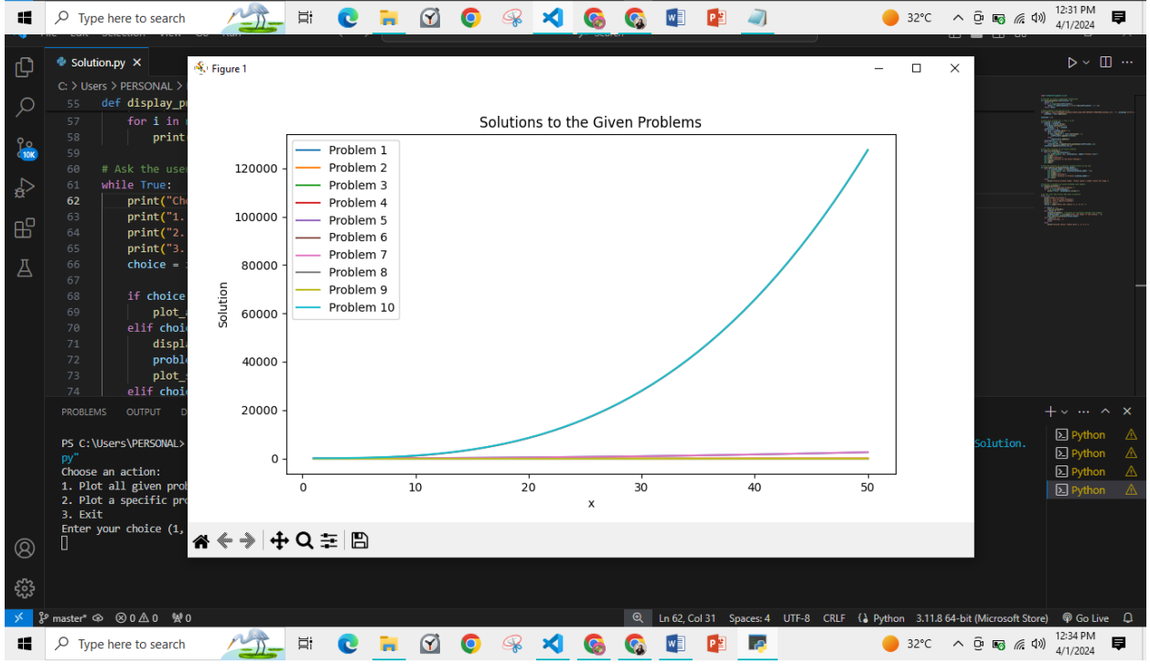
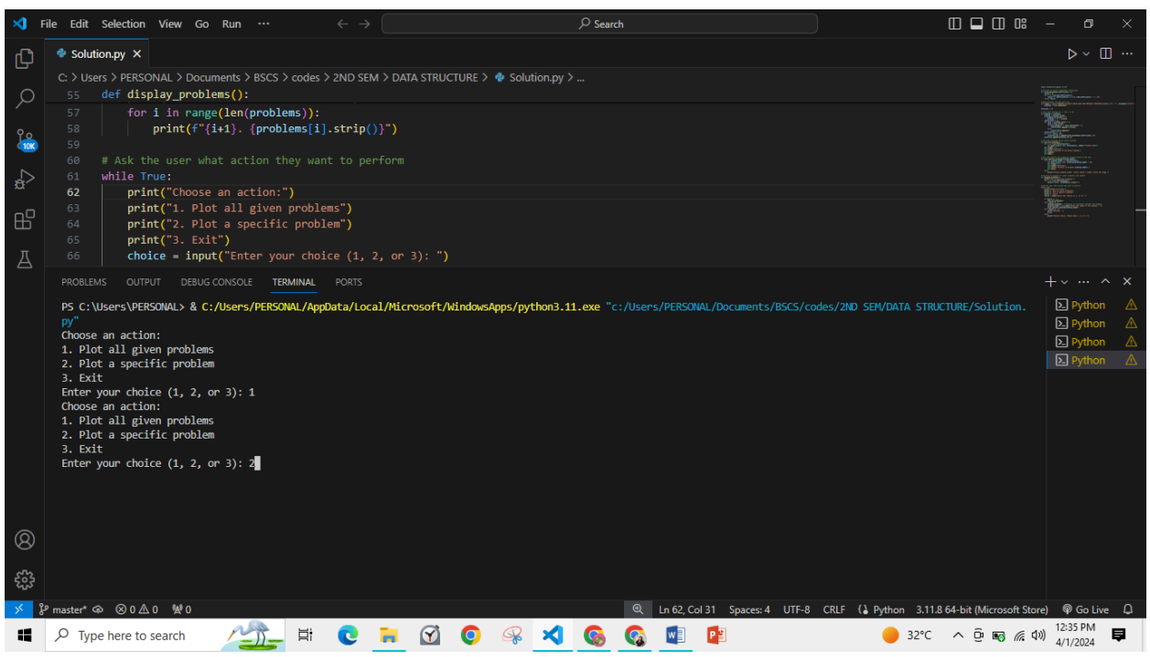
SCREEN SHOTS OF GRAPHS







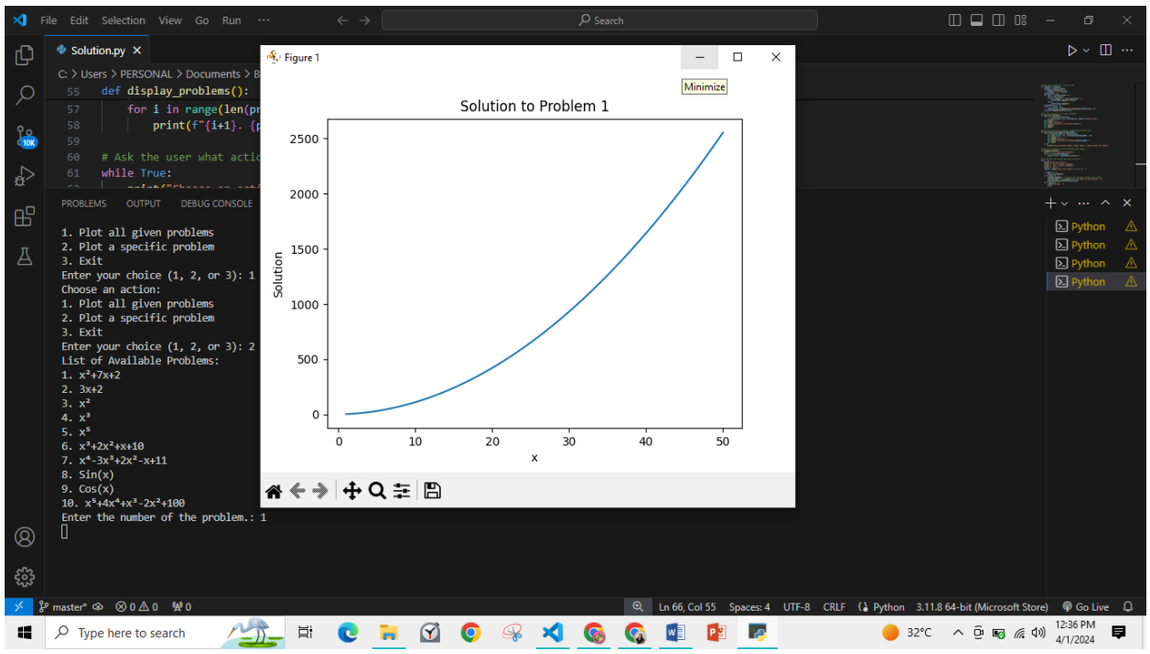


Figure 1
Minimize
Solution to Problem 1
Solution
x
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 1
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 1

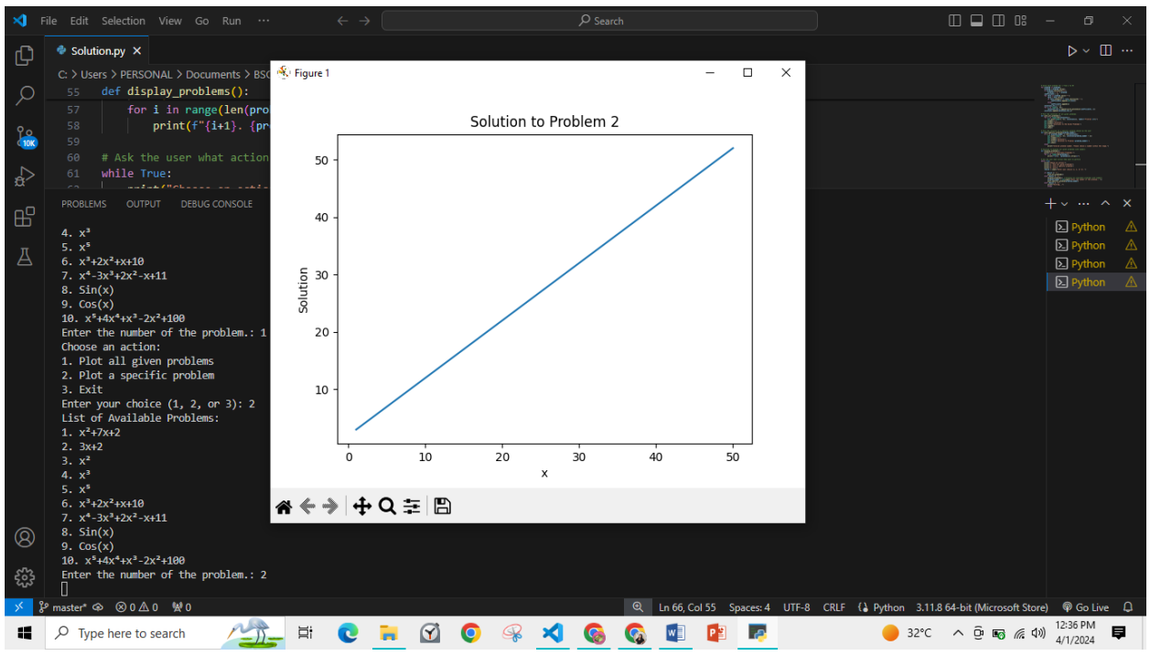


Figure 1
Solution to Problem 2
Solution
x
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 1
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 2

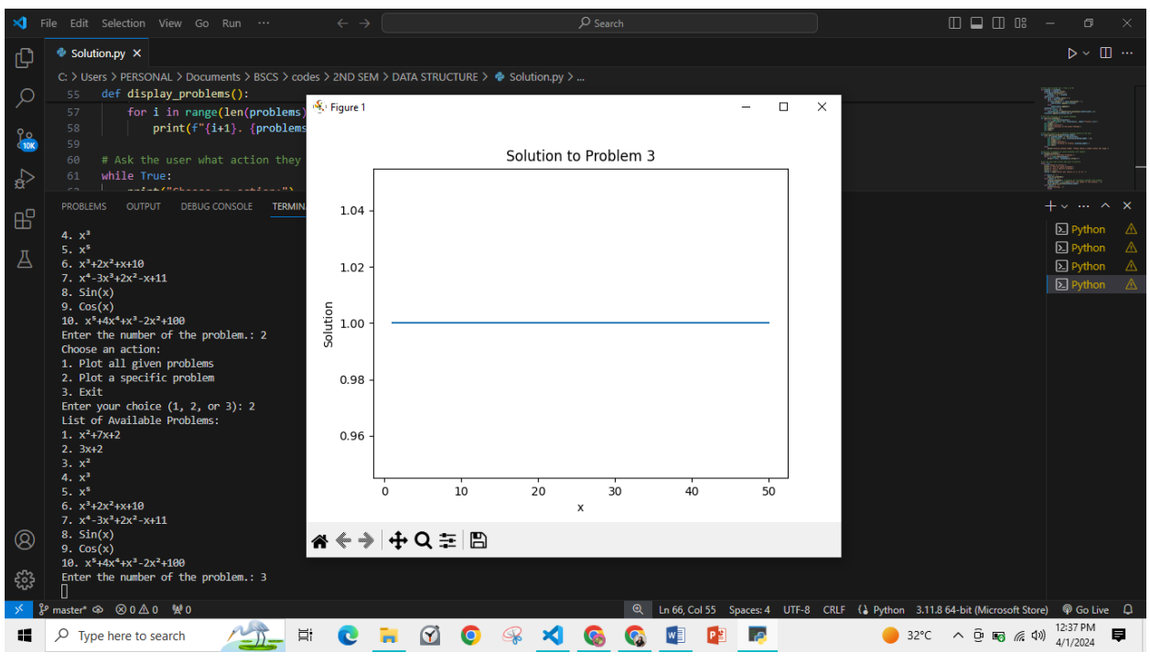


Figure 1
Solution to Problem 3
Solution
x
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 2
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 3

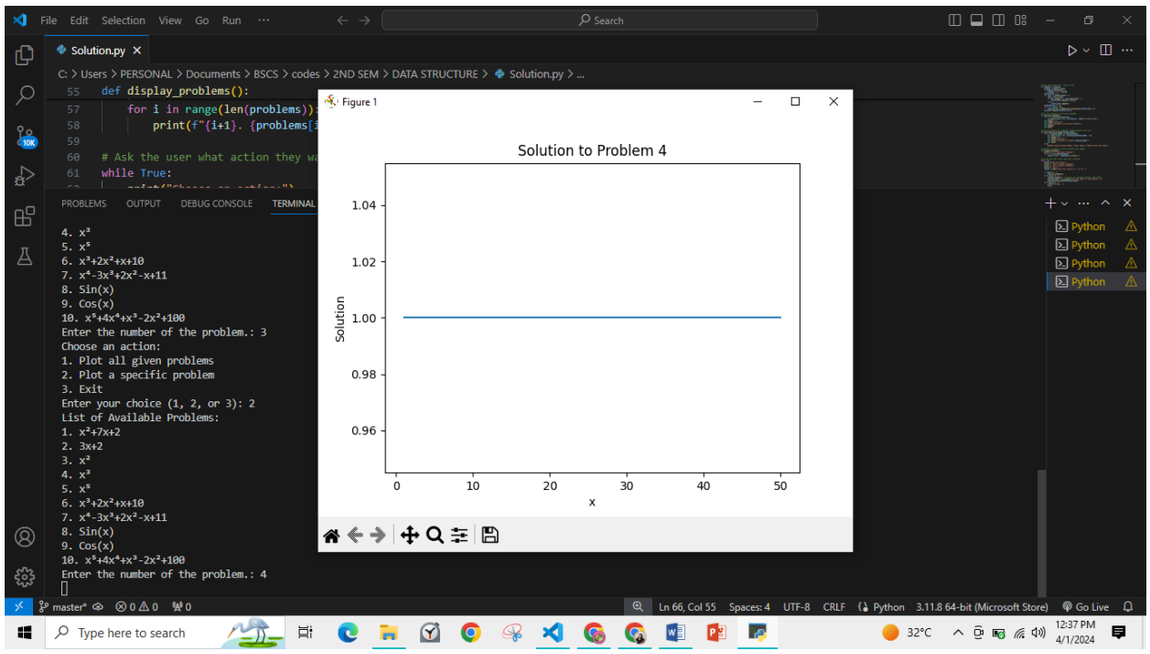


Figure 1
Solution to Problem 4
Solution
x
1.04
1.02
1.00
0.98
0.96
0
10
20
30
40
50
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 3
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 4

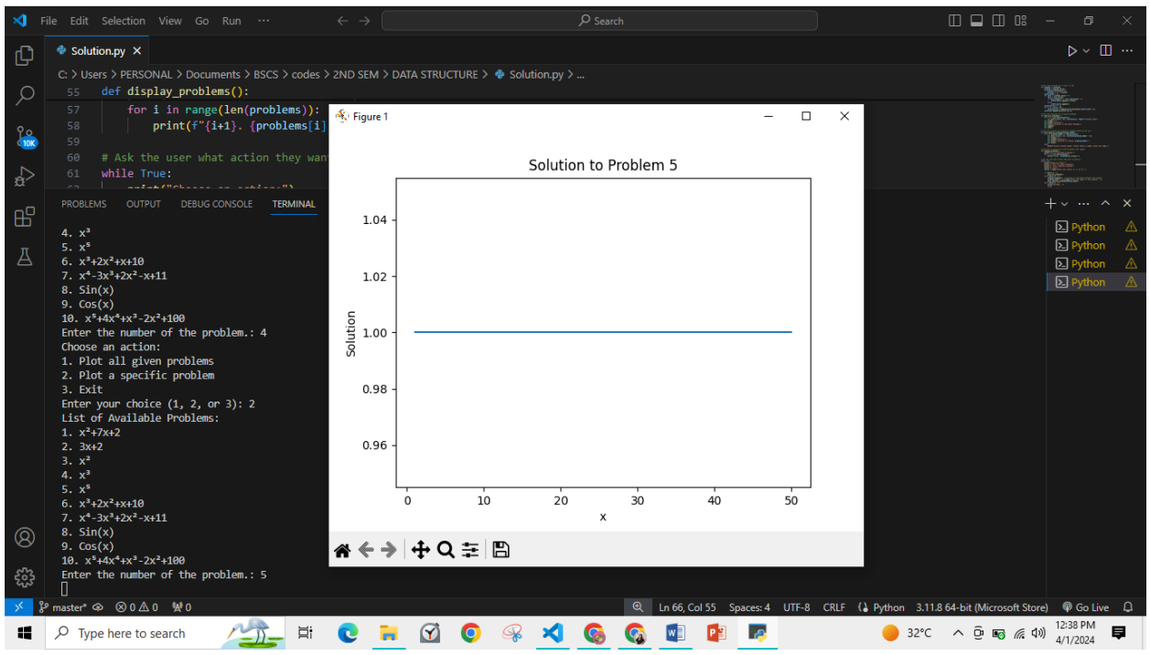


Figure 1
Solution to Problem 5
Solution
x
1.04
1.02
1.00
0.98
0.96
0
10
20
30
40
50
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 4
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 5

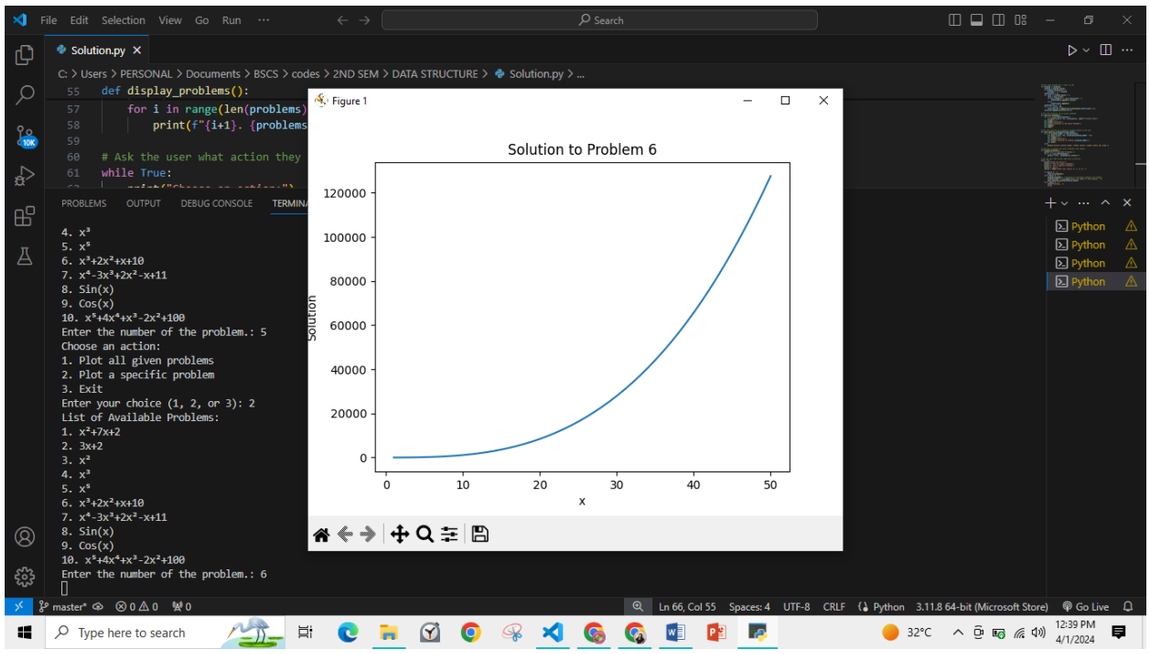


Figure 1
Solution to Problem 6
Solution
x
120000
100000
80000
60000
40000
20000
0
0
10
20
30
40
50
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 5
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 6

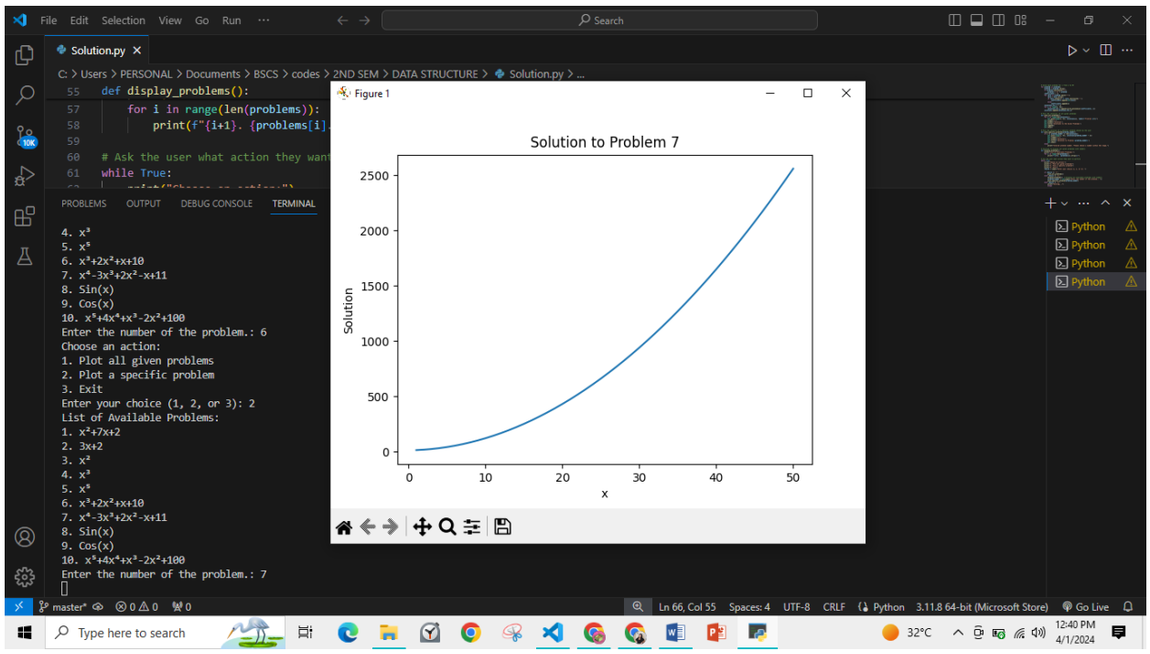


Figure 1
Solution to Problem 7
Solution
x
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 6
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 7

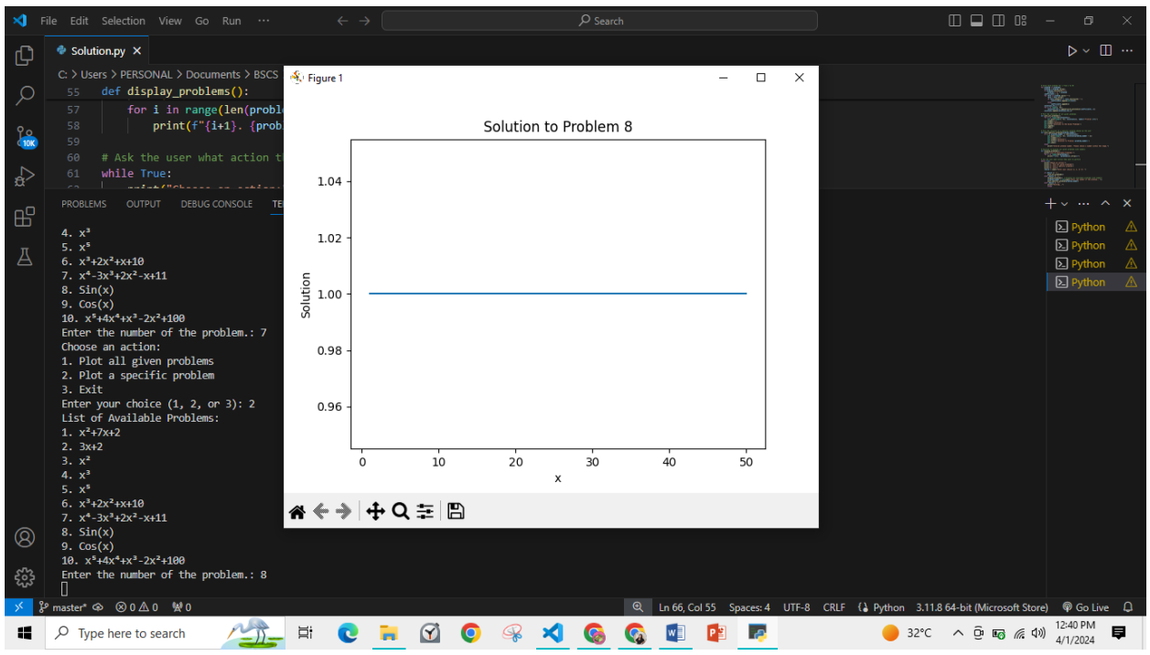


Figure 1
Solution to Problem 8
Solution
x
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 7
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 8

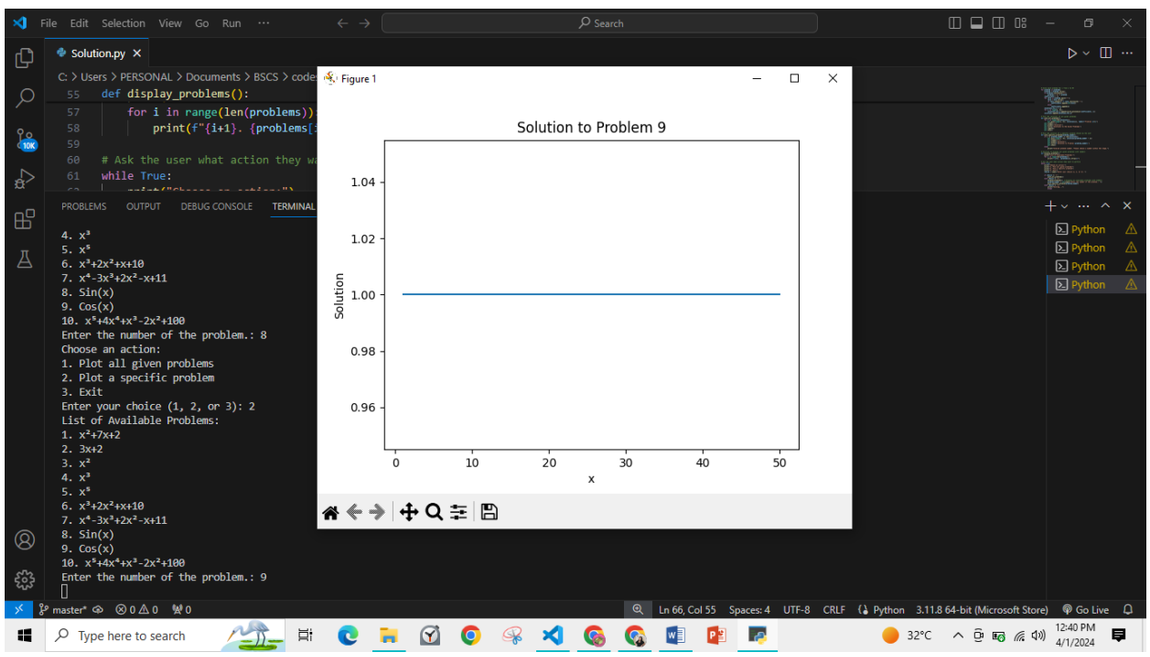
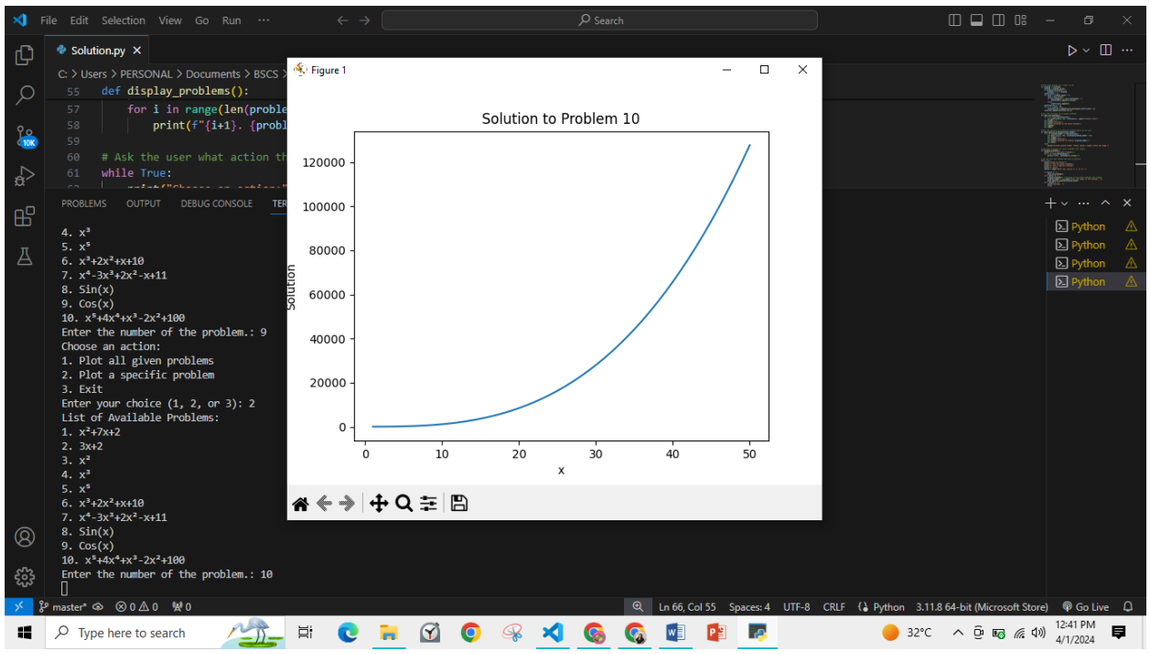


Figure 1
Solution to Problem 9
Solution
x
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 8
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 9

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4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 9
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 2
List of Available Problems:
1. x²+7x+2
2. 3x+2
3. x²
4. x³
5. x⁵
6. x³+2x²+x+10
7. x⁴-3x³+2x²-x+11
8. Sin(x)
9. Cos(x)
10. x⁵+4x⁴+x³-2x²+100
Enter the number of the problem.: 10
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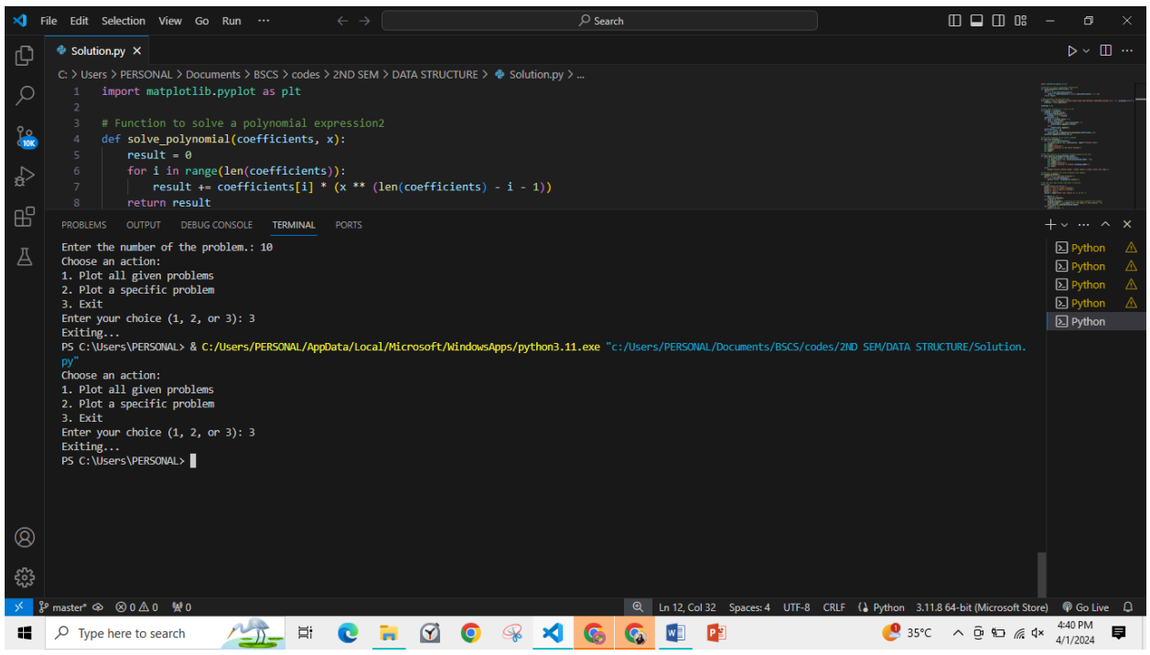

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Enter the number of the problem.: 10
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 3
Exiting...
PS C:\Users\PERSONAL> & C:/Users/PERSONAL/AppData/Local/Microsoft/WindowsApps/python3.11.exe "c:/Users/PERSONAL/Documents/BSCS/codes/2ND SEM/DATA STRUCTURE/Solution.
py"
Choose an action:
1. Plot all given problems
2. Plot a specific problem
3. Exit
Enter your choice (1, 2, or 3): 3
Exiting...
PS C:\Users\PERSONAL>
```